

2003E 50134DE

List of Reference Numerals

100 substrate
102 surface of the substrate
5 104 device area
106 contact area
108 area comprising no contact area and no device area
110 first cover layer
112a opening of the first cover layer 110 above a device
10 area 104
112b opening of the first cover layer 110 above a contact
area 106
114 surface of the first cover layer 110
116 seed layer
15 118 filling material
120 surface of the filling material 118
122 edge regions of the substrate 100
130 planar surface area
132a surface of a filled-up opening 112a
20 132b surface of a filled-up opening 112b
134 plane of section of the seed layer 116
140 additional cover layer
142 opening of the additional cover layer 140
144 conductive layer
25 146 surface of the additional cover layer 140
148 remaining portion of the conductive layer 146
150 second cover layer
152 opening of the second cover layer 150 for exposing the
filling material 118 in the device area 104
30 154 opening of the second cover layer 150 for exposing the
remaining conductive layer 148
156 surface of the second cover layer 150
160 cavity
170 third cover layer
35 172 opening in the third cover layer 170
172a opening in the third cover layer 170
174 metal paste
176 conductive filling material

178 surface of the third cover layer

180 solder bump

310 initial cover layer

5 312 opening in the initial cover layer 310

314 conductive layer

316 surface of the initial cover layer 310

318 remaining conductive layer

320 edge region of the substrate 100

10 322 outer sidewall of the first cover layer 110

FIG 1A

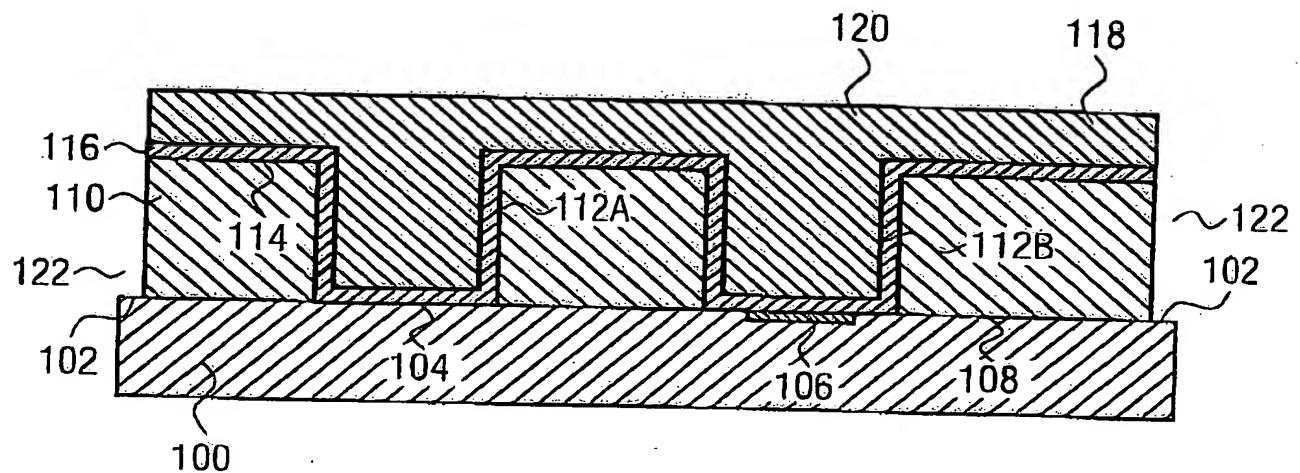


FIG 1B

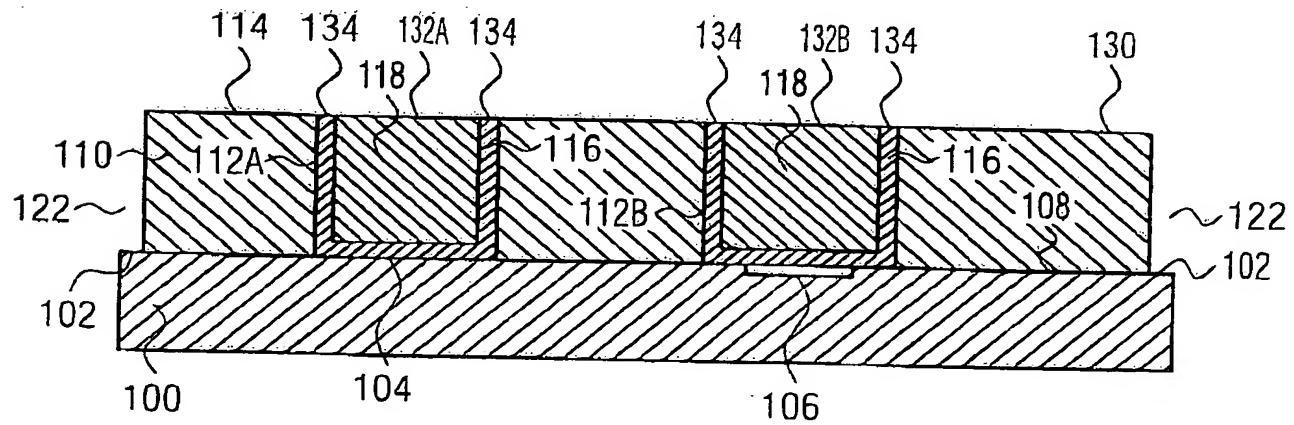


FIG 1C

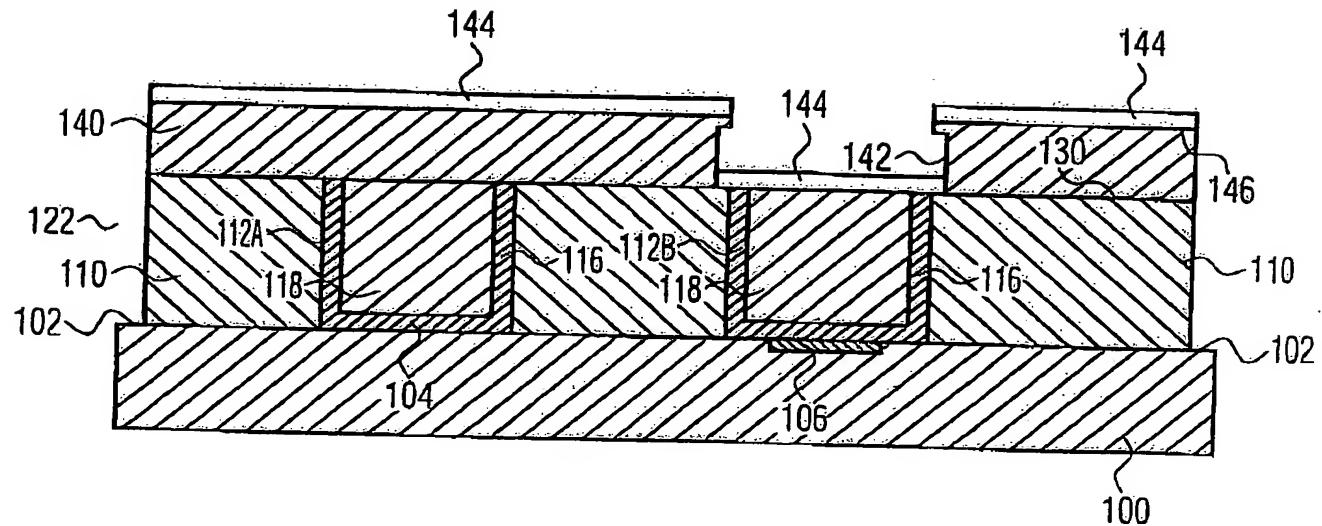


FIG 1D

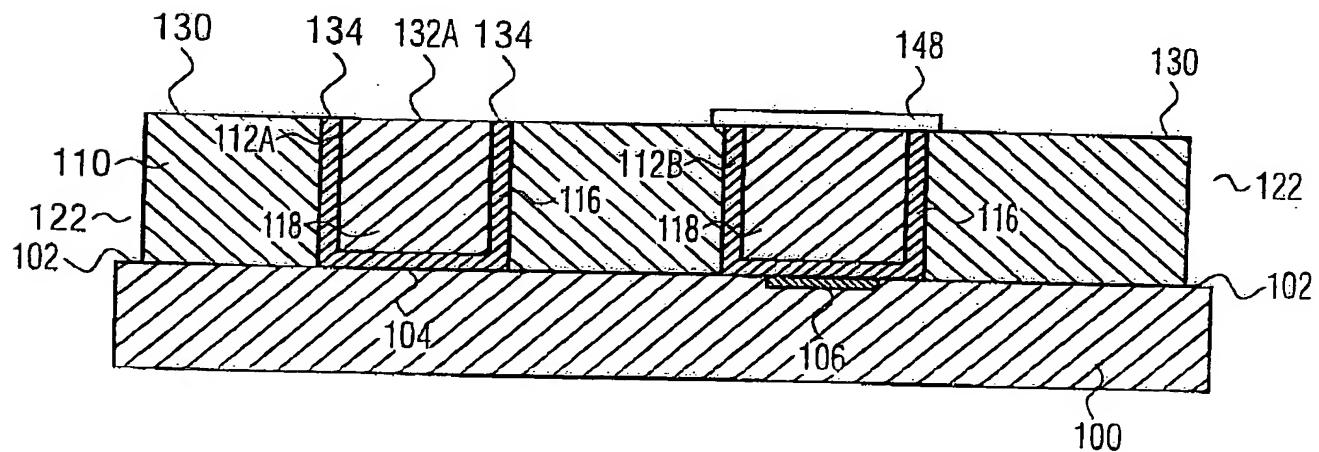


FIG 1E

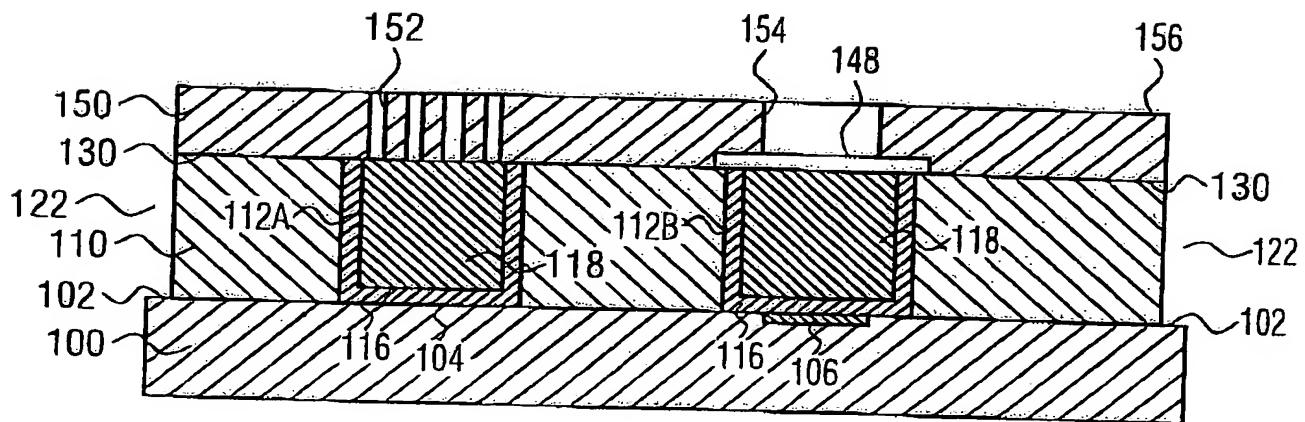


FIG 1F

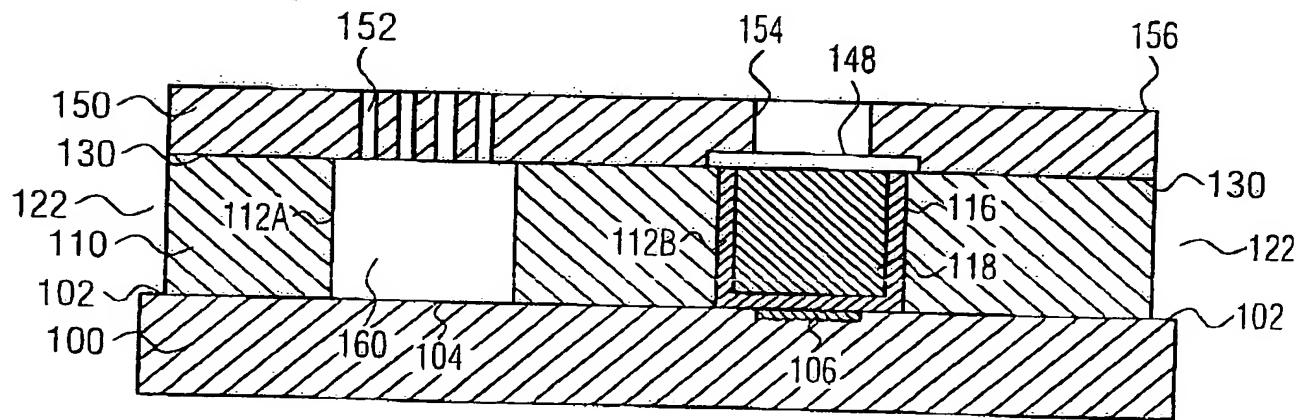


FIG 1G

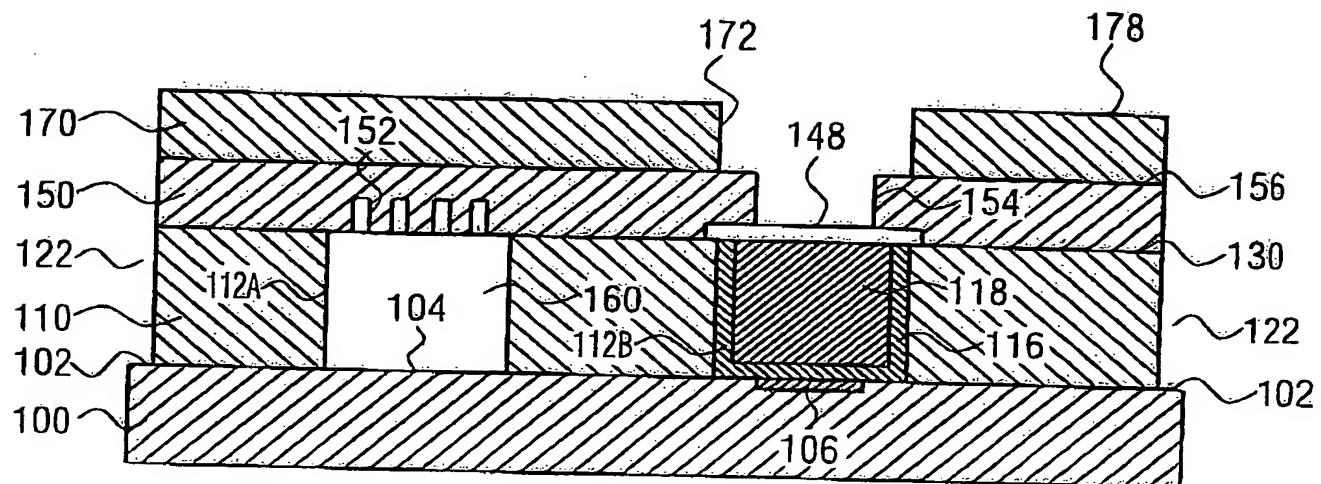


FIG 1H

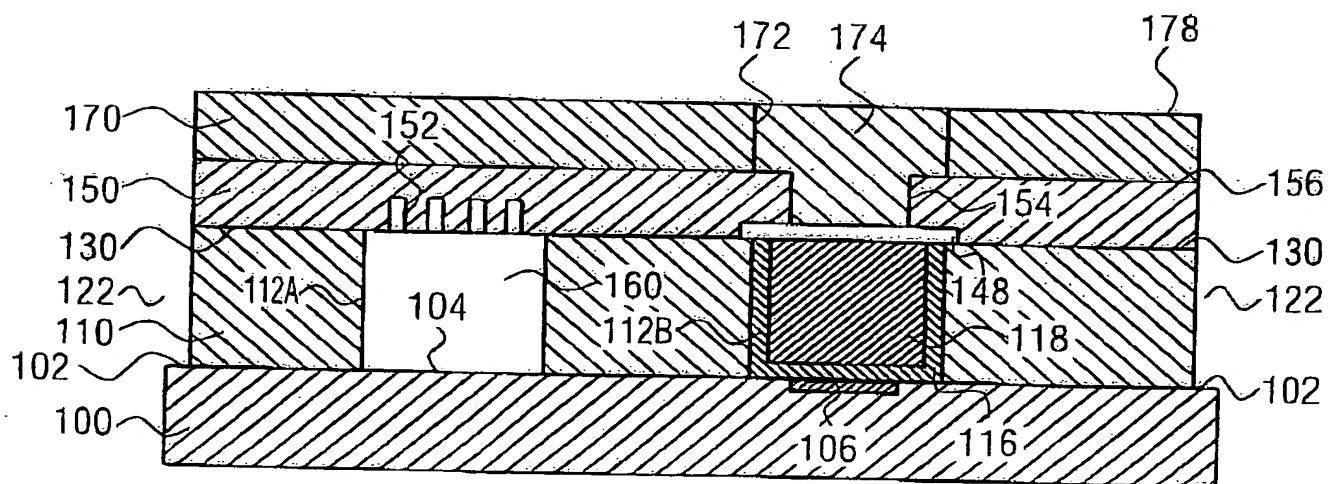


FIG 11

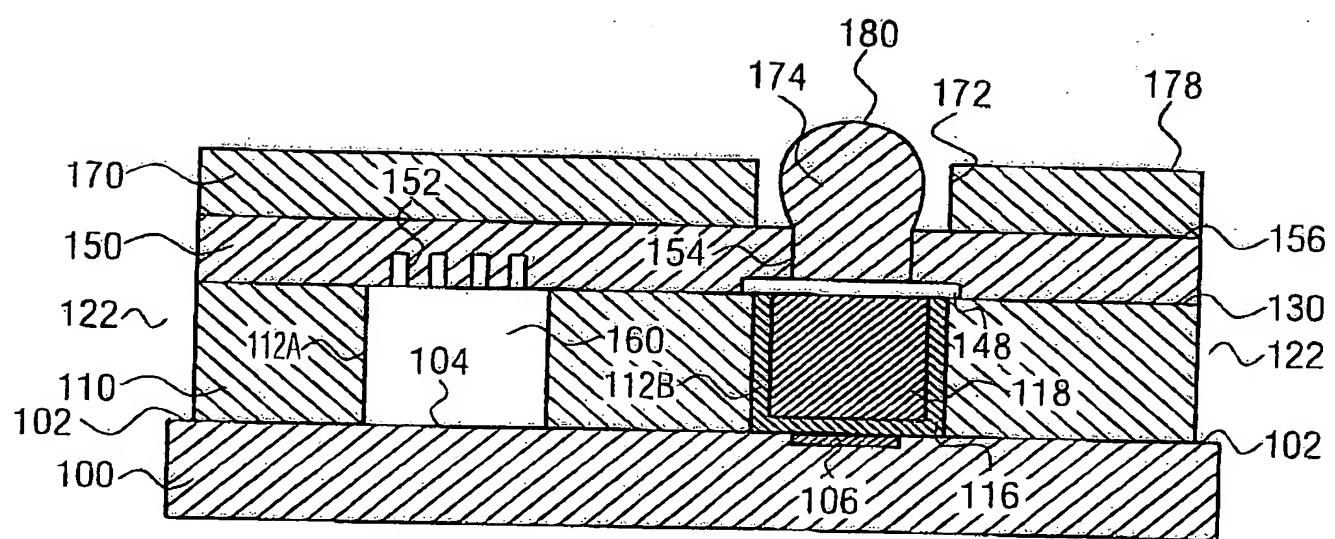


FIG 2A

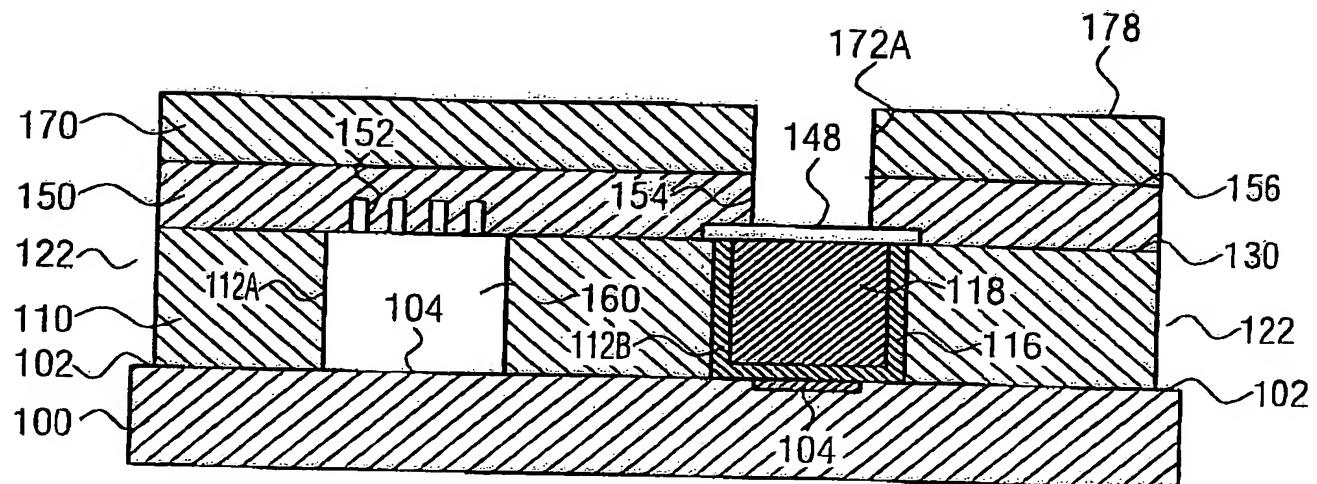


FIG 2B

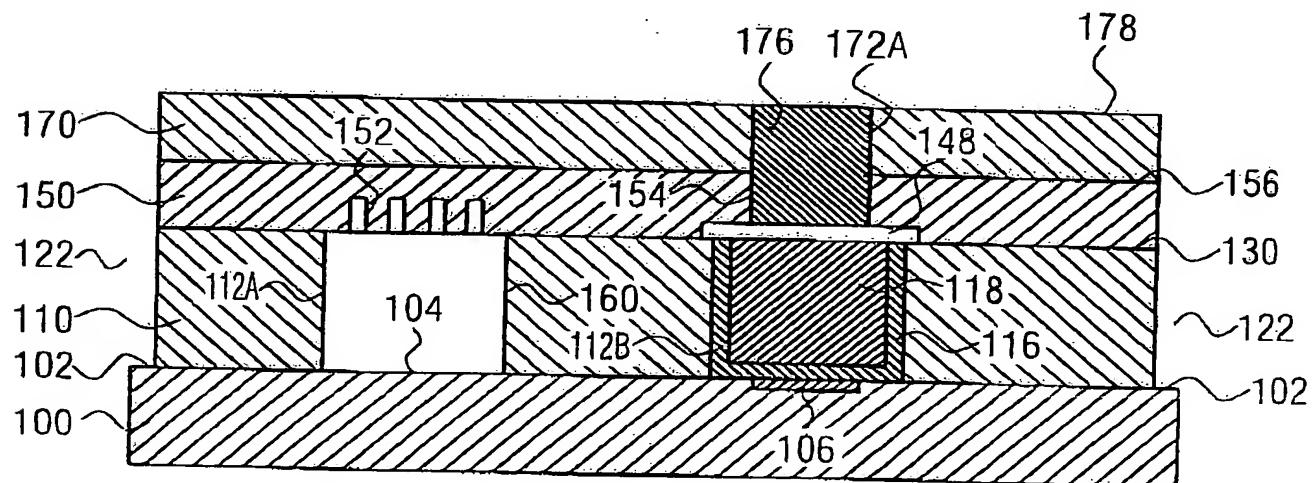


FIG 2C

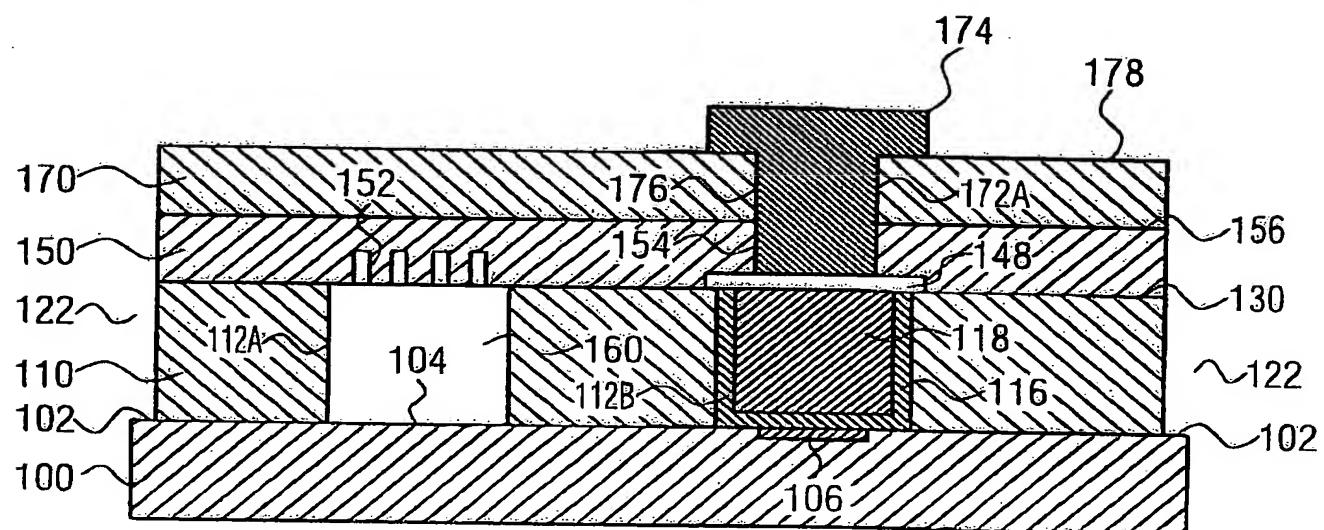


FIG 2D

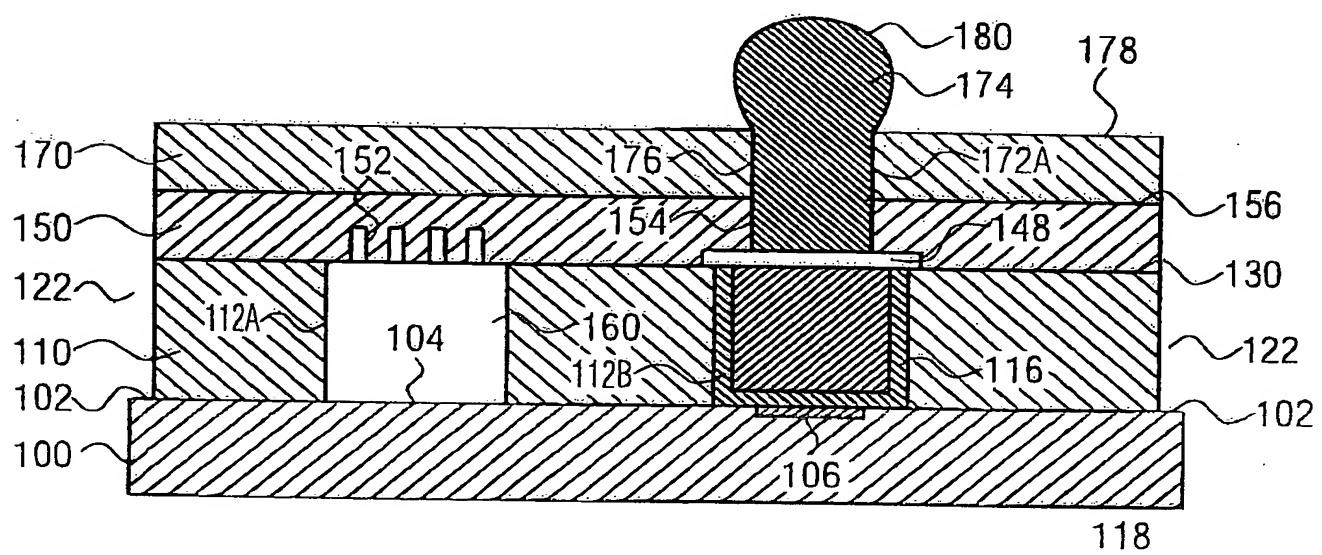


FIG 3A

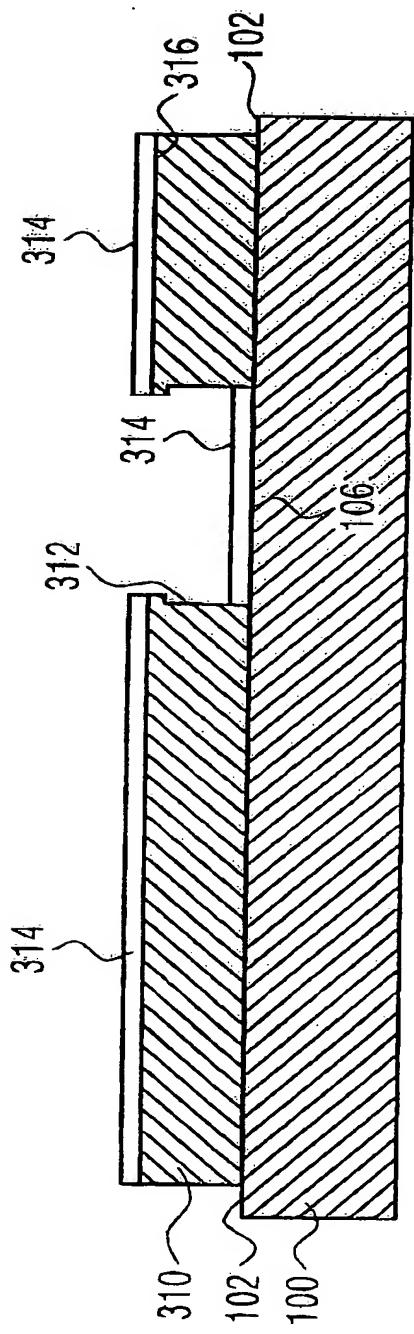


FIG 3B

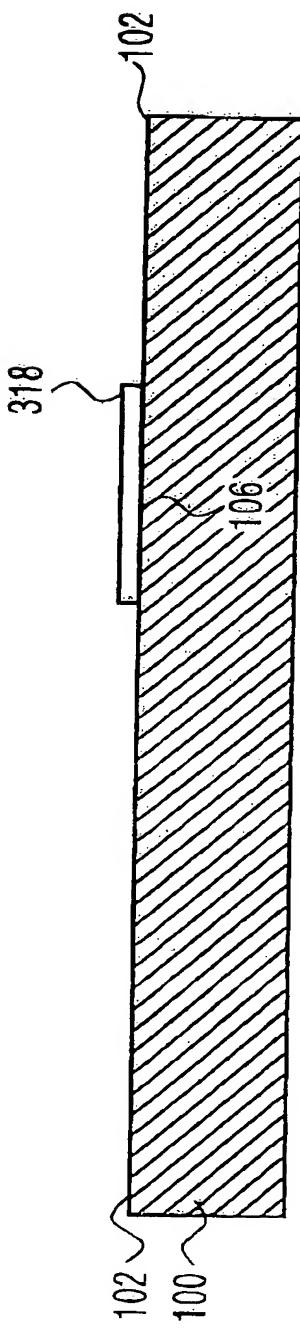


FIG 3C

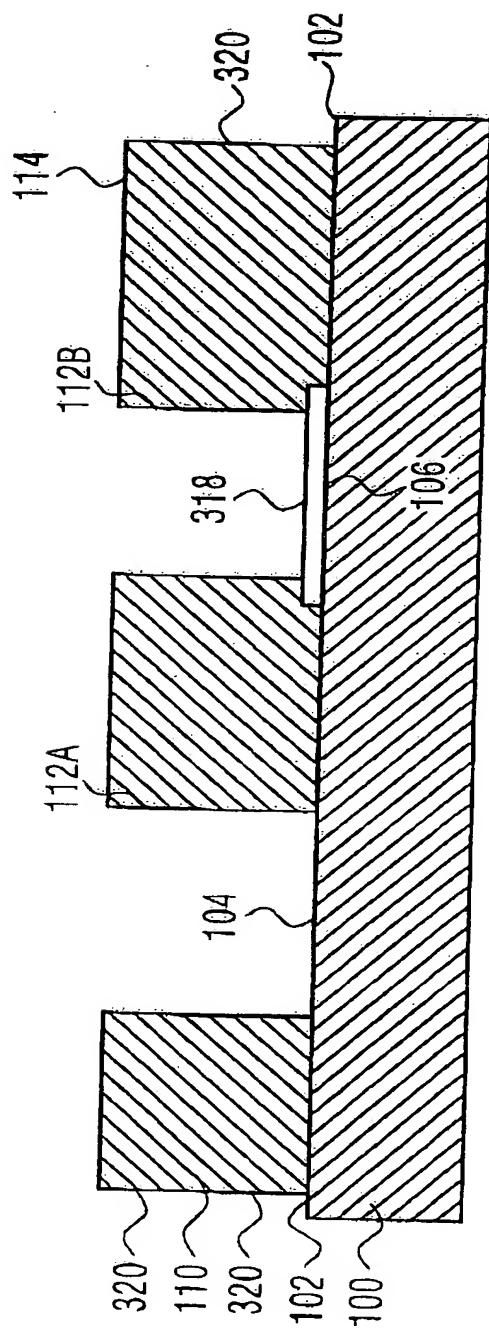


FIG 3D

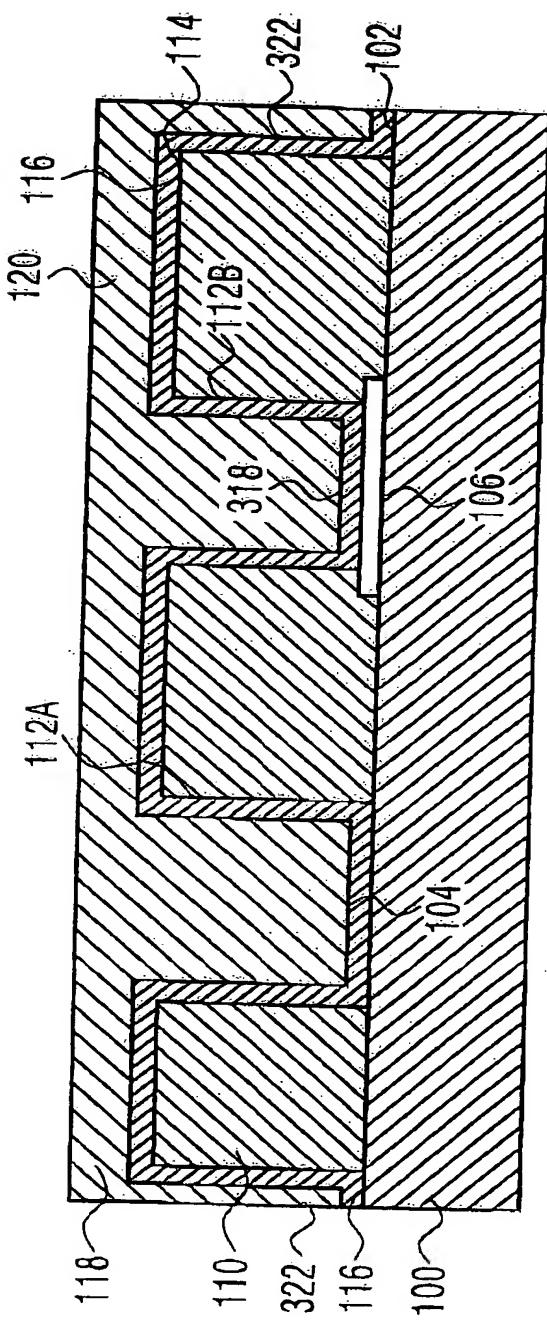


FIG 3E

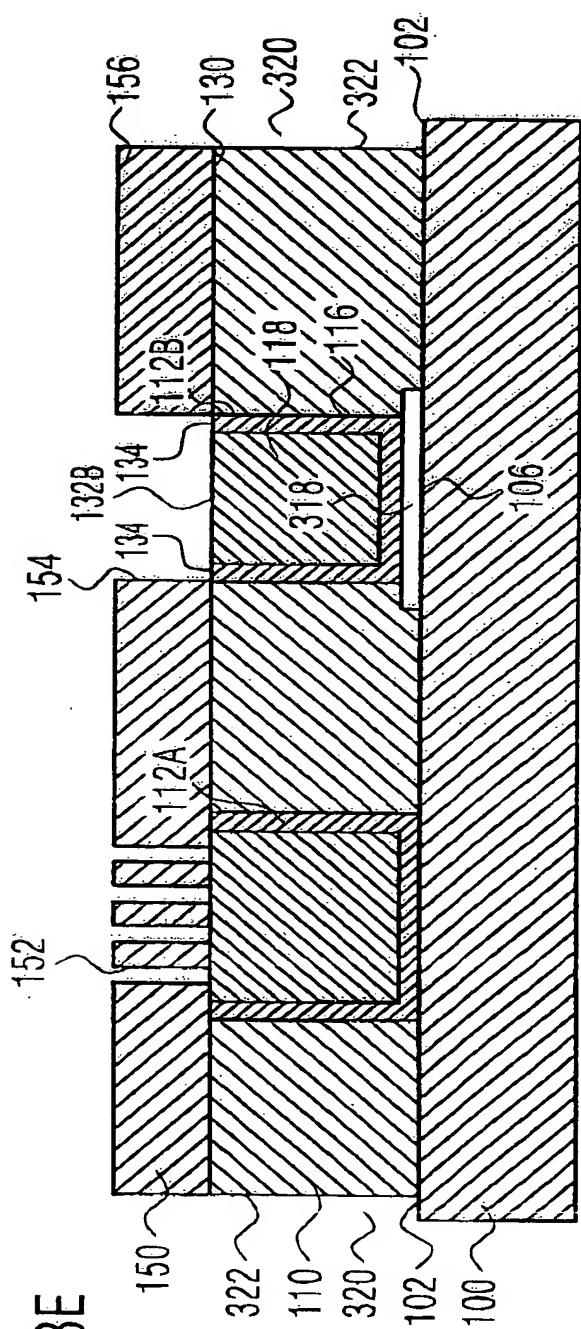
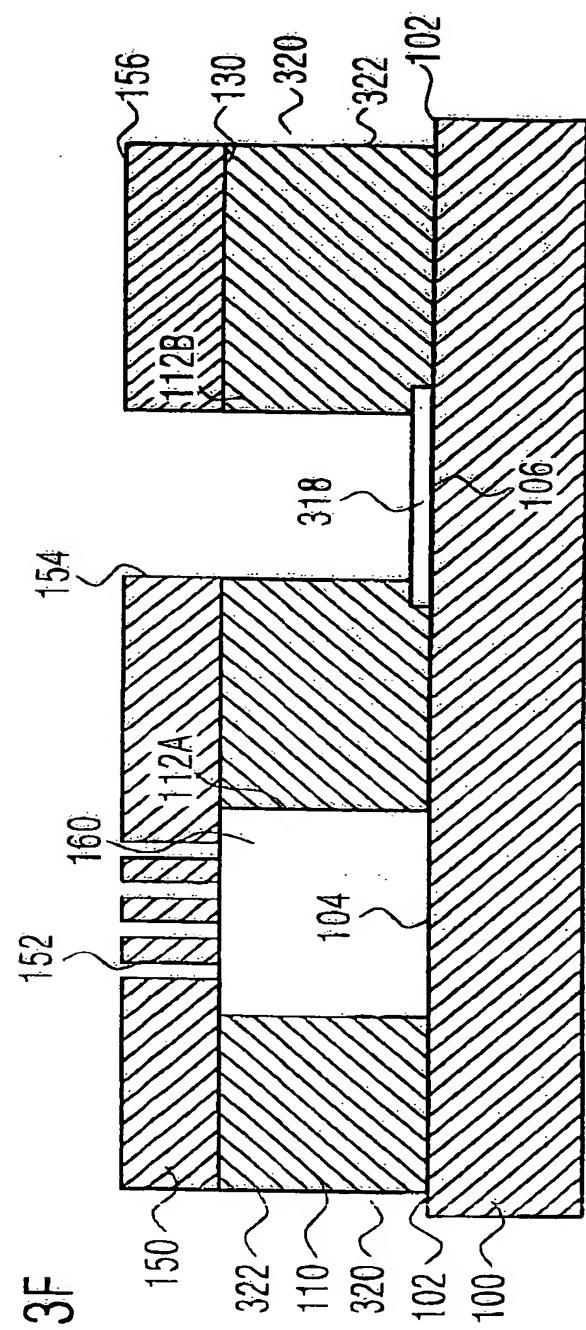


FIG 3F



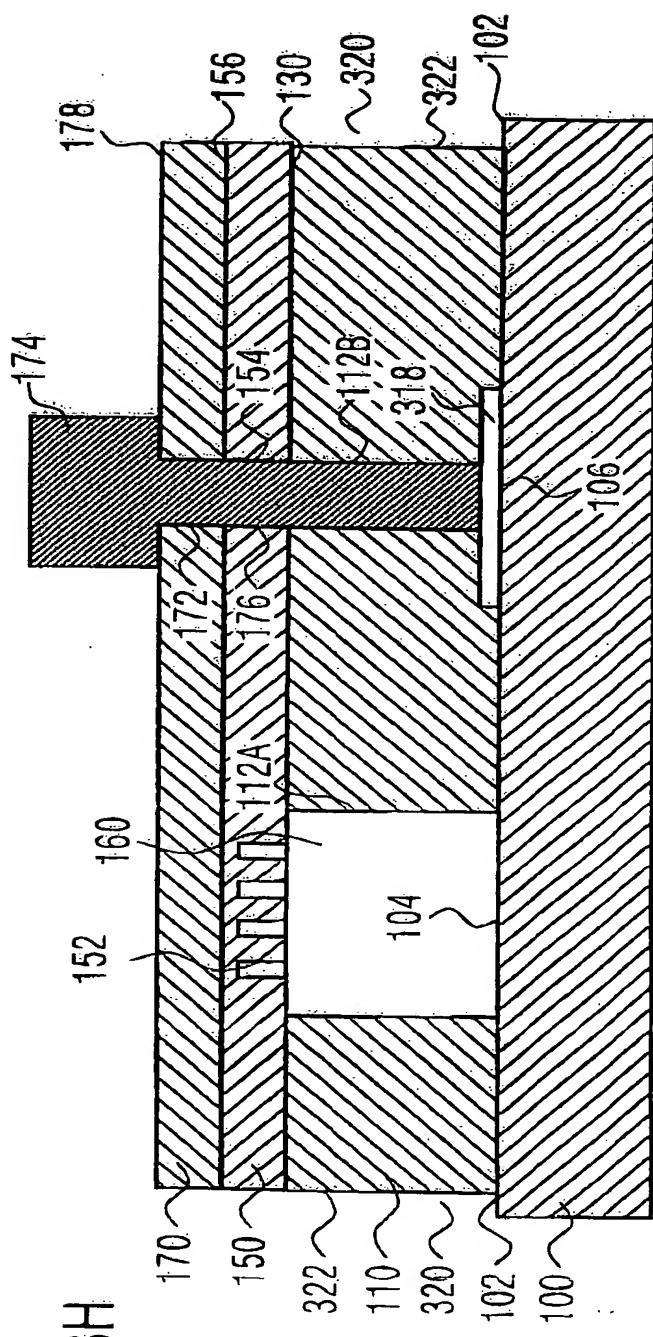
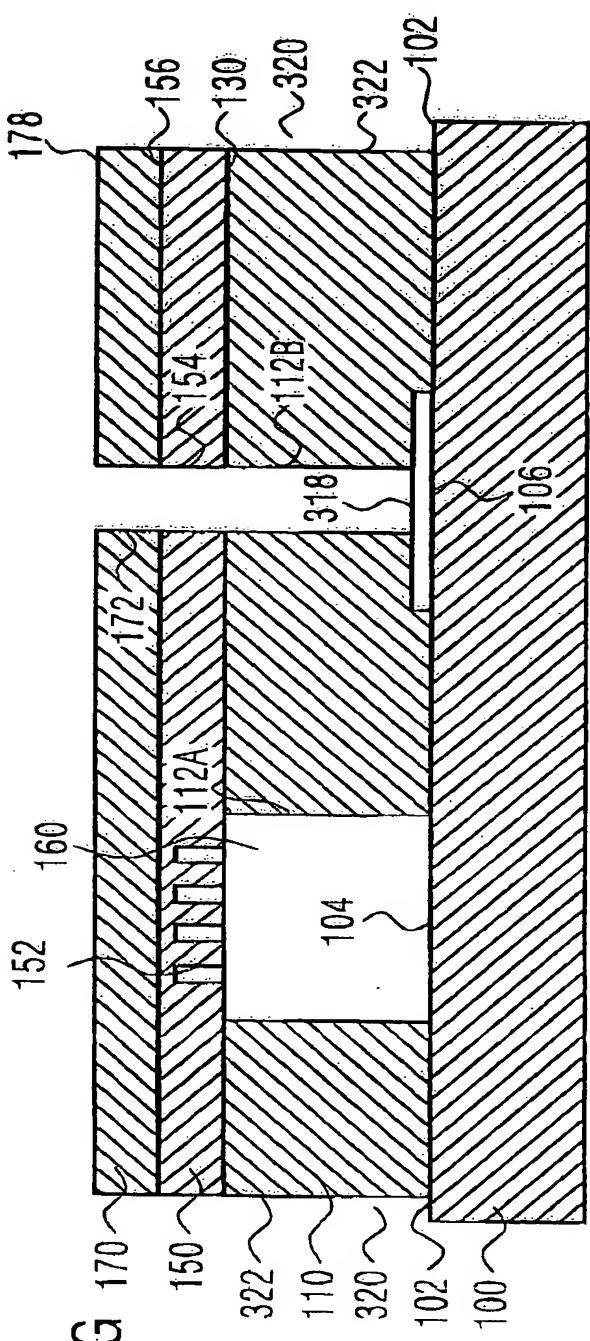


FIG 31

